## Fall 2013 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including USACE Erosion Survey

### Sacramento River Basin

MA0003 Sutter Maintenance Yard Maintenance	Overall LMA Rating	Total LMA Miles						
Area 0003	A	5.19						
Rated Item		Maintena	nce Deficiancy		Enforc	ement		& System scence
Nateu itelli	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Vegetation	0.01		0.01	0.19%				
Encroachments					0.01			
Interior Drainage & Piping Systems								
Sluice / Slide Gates	0.01		0.01	0.19%				
Supplemental								
DWR UCIP Field Study					0.02	0.08		
LMA Totals:	0.02	0.00	0.02	0.39%	0.03	0.08	0.00	0.00

## **LMA District Cover Sheet**

## Fall 2013 Levee Inspection Results

** Non-receipt of Su		A									
** Non-receipt of Su											
** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.											
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.  FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indiction of risk.											
	I using the same criter nce rating shown abo	I using the same criteria in the spring and in nce rating shown above is based on operat	I using the same criteria in the spring and in the fall.  nce rating shown above is based on operation and maintenance de								

### **Unit Cover Sheet**

### Fall 2013 Levee Inspection Results

### **Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles
Unit No. 01 Feather River	Right	5.19

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			Α	
Date of Inspection	04/22/2013 - 04/22/2013		10/22/2013 - 10/22/2013	
DWR Inspector	Rick Burnett		Matthew Hoffman	
Accompanied By				

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

## Levee Inspection Report By Mile - Fall 2013

## **Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.19	10/22/2013 10/22/2013	Matthew Hoffman

										10/22/2013	Нопти	all
LMR No.	Levee	Mile End	Category	Item	Location	Rating	Action/Comment			GPS Latitude	e/Longitude End	Issue No. Photo
1			Earthen Levee	Operations & Maintenance Manuals	LS	A Ma				0 0	0	4
2			Earthen Levee	Emergency Supplies & Equipment	LS	A Ma				DWR ID: DWR_MAI	0	6
3			Earthen Levee	Flood Preparedness & Training	LS	A Ma				o o DWR ID: DWR_MAI	0	7
4	0.80	0.80	Interior Drainage & Piping Systems	Sluice / Slide Gates	LS	M Ma	Inspector Comments: This pipe leaked of water event of 2010/2011.	during the	high		38.903291 ° 121.605747 °	5 Y
5	0.80	0.80	Supplemental	DWR UCIP Field Study	LS		Inspector Comments: FS_ID:6826 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Flap gates not visible headwall and it appears as though they replaced by sandbags. Slide gates on L closed yet water leaks excessively from sadbagged headwall. FIELD_STRUCT_DESC: 2 of 2. 18-incl levee, 32.0 feet below the crown. Flap g waterward end. Slide gate on the landw concrete headwall. Concrete "U" headw waterward toe. Originally included in O-FS Date: 10/10/2012 9:23:00 AM	have been S appear the WS an pipe through a the ward end a wall at the	n to be t the ough the e t	38.903264 ° -1	121.605698 ° 121.605698 °	1
6	0.80	0.80	Supplemental	DWR UCIP Field Study	LS		Inspector Comments: FS_ID:6824 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Flap gates not visible headwall and it appears as though they replaced by sandbags. Slide gates on L closed yet water leaks excessively from sadbagged headwall. FIELD_STRUCT_DESC: 2 of 2. 18-incl levee, 32.0 feet below the crown. Flap of waterward end. Slide gate on the landw concrete headwall. Concrete "U" headw waterward toe. Originally included in O-FS Date: 10/10/2012 9:23:19 AM	have been S appear the WS an pipe throught on the vard end a vall at the	n to be t the ough the e t	38.903264 ° -1 38.903264 ° -1	121.605698 ° 121.605698 °	2

\* Location LS: Land Side WS : Water Side CR : Crown Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Fall 2013

## **Sutter Maintenance Yard Maintenance Area 0003**

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather I	River	Right	5.19	10/22/2013 10/22/2013	Matthew Hoffman
Levee Mile   Category   Item   Rational Residue	Action/Comment			GPS Latitude/L	ongitude Issue No. End Photo
Field Study En E F C C L L h received to the state of the	nspector Comments: FS_ID:6823 EP_NO: N/A Repair Type: Urgent Crossing Status: Found JCIP Comments: Flap gates not visible neadwall and it appears as though they eplaced by sandbags. Slide gates on L elosed yet water leaks excessively from hadbagged headwall. EIELD_STRUCT_DESC: 1 of 2. 18-inch evee, 32.0 feet below the crown. Flap of vaterward end. Slide gate on the landwer concrete headwall. Concrete "U" shape vaterward toe. Originally included in One ES Date: 10/10/2012 8:58:28 AM	have been S appear the WS a pipe throught parte on the ard end a d headwa	to be t the  bugh the e t Il at the	38.903264 ° -12' 38.903264 ° -12'	1.605698°
Field Study En E F C U h r c S r 2 e b b	Inspector Comments: FS_ID:13563 EP_NO: N/A Repair Type: Urgent Crossing Status: Found JCIP Comments: Flap gates not visible leadwall and it appears as though they eplaced by sandbags. Slide gates on L elosed yet water leaks excessively from landbagged headwall.5/21/2013 SBFC ecommends replacing in accordance w 23.5/21/2013 High water levels in WS of ends underwater but repairs have not ye lout are planned for when water levels dr elected. 32.0 feet below the crown. Flap of eveloped and the landwer of the landwe	have been S appear the WS a A project ith title litch have to been co op. In pipe throught and a wall at the	to be t the  pipe mpleted  bugh the e t	38.903264 ° -12' 38.903264 ° -12'	1.605698° 9 1.605698°
Field Study En E F C U rr S W S F F fe	nspector Comments: FS_ID:13567 EP_NO: 13624 Repair Type: Urgent Crossing Status: Found JCIP Comments: 5/21/2013 SBFCA preplacing in accordance with title 23.5/2 slope along outside of standpipe thats a with moisture in the bottom. Dirt inside sliphon breaker also wet indicating there sleed to investigate source or moisture. FIELD_STRUCT_DESC: 20-inch pipe the theolow the crown. Siphon breaker or shoulder. Open on waterward end. Pum andward side. (Permit No. 13624-D & IES Date: 5/21/2013 2:25:11 PM	1/2013 H bout 1 foc standpipe may be a prough the the wate p in ditch	ole in ot deep around leak. e levee 3 rward	DWR ID: DWR_MA000  38.903264 ° -12'  38.903264 ° -12'	I.605698 ° 10 I.605698 °

\* Location LS: Land Side WS : Water Side CR : Crown \* Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Fall 2013

W	Waterway Bank Unit Miles					Inspector
Unit No. 0	Feather River		Right	5.19	10/22/2013 10/22/2013	Matthew Hoffman
Levee Mile Start End Category Item	Rating ** + Location	Action/Comment		GPS Latitude/L	ongitude Issue No. End Photo	
10 0.80 0.80 Supplemental DWR UCIP Field Study	En EP_NO: 13624 Repair Type: U Crossing Statu UCIP Commer replacing in act slope along ou with moisture i siphon breake Need to invest FIELD_STRUC feet below the shoulder. Ope landward side.	Jrgent	lole in ot deep e around a leak. e levee 3 erward	38.903264 ° -12' 38.903264 ° -12'	1.605698°	
11 0.80 0.80 Supplemental DWR UCIP Field Study	En EP_NO: 13624 Repair Type: U Crossing Statu UCIP Commer replacing in act slope along ou with moisture i siphon breake Need to invest FIELD_STRUC feet below the shoulder. Ope landward side.	Jrgent	1/2013 Hout 1 footstandpipe may be a prough the prough the prough in ditch	lole in ot deep e around a leak. e levee 3 erward	38.903264 ° -12' 38.903264 ° -12'	1.605698 ° 12 1.605698 °
12 0.80 0.80 Supplemental DWR UCIP Field Study	En EP_NO: N/A Repair Type: U Crossing Statu UCIP Commente headwall and in replaced by sandbagged horecommends in 23.5/21/2013 ends underware but are plannee FIELD_STRUCT levee, 32.0 fee waterward end concrete head waterward toe		have bee S appear the WS a A project ith title litch have to been coop. In pipe throught on the ard end a d headward been was a little	n to be at the epipe completed cough the eart the	38.903264 ° -12′ 38.903264 ° -12′	I.605698 ° 13
					DWR ID: DWR_MA000	3_01_f _ 2013_13

## Levee Inspection Report By Mile - Fall 2013

## **Sutter Maintenance Yard Maintenance Area 0003**

	Waterway Bank Unit Miles						Inspection Start/End	Inspec	tor		
				Unit No. 01	Feathe	r River	Right	5.19	10/22/2013 10/22/2013	Matthe Hoffma	
LMR No.	Levee	Mile End	Category	Item	Rating ** + Location *	Action/Comment			GPS Latitude/L	ongitude End	Issue No. Photo
13	1.82	1.82	Earthen Levee	Encroachments		TR : Tree or limb			38.907469 ° 38 -121.589717 ° -121 DWR ID: DWR_MA000		
14	2.15	2.15	Earthen Levee	Slope Stability	WS C Ma	S3 : Repair the levee slope damaged by prevent access where possible.	vehicle t		38.911220 ° 38 -121.586530 ° -121		
15	2.19	2.19	Supplemental	I DWR UCIP Field Study	WS M En	Inspector Comments: FS_ID:6829 EP_NO: 3284 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pumping plant has be from levee. Need to determine if abanda appropriate or if this is now a gravity dra FIELD_STRUCT_DESC: 32-inch by 32-i culvert through the levee approximately crown. Transition between vault on RS a within levee section is made with a 41-in gate on LS at concrete headwall. Flap C vault on RS at terminal of pipes from pur floodway. Pipes from pump station in cr connected. (Permit No. 3284)	onment is in with flat inch concern 28 feet be and box on the concern composite in compostruction.	ap gate. crete box elow the culvert Slide oncrete ture in	38.911734 ° -121 38.911734 ° -121		14 Y
						FS Date: 10/10/2012 12:37:13 PM			DWR ID: DWR_MA0000	3_01_f _ 2013_	14
16	2.19	2.19	Supplemental	DWR UCIP Field Study	WS M En	Inspector Comments: FS_ID:13570 EP_NO: 3284 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pumping plant has be from levee. Need to determine if abanda appropriate or if this is now a gravity dra gate.5/21/2013 Pumping plant was runr concrete vault on WS toe through the let then flowing through levee pipe and fillin on LS. Left and middle flap gates appeat to pumps and right gate appears abanda Recommend contacting owner to get mo FIELD_STRUCT_DESC: 32-inch by 32-i culvert through the levee approximately crown. Transition between vault on RS within levee section is made with a 41-in gate on LS at concrete headwall. Flap O vault on RS at terminal of pipes from pur floodway. Pipes from pump station in cr connected. (Permit No. 3284) FS Date: 5/21/2013 2:33:53 PM	onment is in with flan ing and fift flap gating irrigation oned. The concentration of the concentration oned inch concentration oned inch concentration oned inch concentration of the compostruction	s ap filling te and on ditch connected s. crete box elow the culvert Slide concrete ture in	38.911734 ° -121 38.911734 ° -121	.586106 °	
17	2.29	2.42	Earthen Levee	Slope Stability	WS C	S1 : Repair slope instability. Inspector Comments: Material movemer waterside slope. The LMA should invest further.				.914582 ° .584106 °	119

\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Mainter

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

### Levee Inspection Report By Mile - Fall 2013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.19	10/22/2013 10/22/2013	Matthew Hoffman

LMR	Levee	Mile	Category	Item Rating Rating ** + + + + + + + + + + + + + + + + + +		Action/Comment	GPS Latitud	le/Longitude	Issue No.
No.	Start	Start End Category Rem Start End Sta		Start	End	Photo			
18	3.64	3.64	Earthen Levee	Vegetation	LS M Ma	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberries on the landward levee toe.	38.930063 ° -121.590211 °	38.930063 ° -121.590211 °	19 Y
							DWR ID: DWR_M	A0003_01_f _ 2013_	_19
19	5.18	5.18	Earthen Levee	Vegetation		V1 : Control annual grass and weeds on the levee slopes and easements.	38.950930 ° -121.585773 ° DWR ID: DWR_M	38.950930 ° -121.585773 ° <sup>A0003</sup> _01_f _ 2013	18 _ <sub>18</sub>

### Levee Inspection Report By Mile - Fall 2013

## **Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.19	10/22/2013 10/22/2013	Matthew Hoffman

Levee Mile Report Line	4
Start Levee Mile	0.80
End Levee Mile	0.80
Location	Land Side
Category	Interior Drainage & Piping Systems
Item	Sluice / Slide Gates

Levee mile 0.80, this photo is looking at the landside toe, one of these pipes leaked during the high water event of 2010/2011. A flap gate prevents flow from the waterward side to the landward side of the levee.

mhoffman\_f\_20130917\_007.jpg

Levee Mile Report Line	12	
Start Levee Mile	0.80	
End Levee Mile	0.80	
Location	Land Side	
Category	Supplemental	
Item	DWR UCIP Field Study	

Concrete headwall with walkway and slide gates at LS toe.

UCIP\_7361.jpg

Levee Mile Report Line	15	
Start Levee Mile	2.19	
End Levee Mile	2.19	
Location	Land Side	
Category	Supplemental	
Item	DWR UCIP Field Study	

Pumping plant on WS toe at small slough. Pipes no longer connected to concrete box on WS toe.

UCIP\_2960.jpg







Location LS: Land Side WS : Water Side CR : Crown Rating

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Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Fall 2013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.19	10/22/2013 10/22/2013	Matthew Hoffman

Levee Mile Report Line	18			
Start Levee Mile	3.64			
End Levee Mile	3.64			
Location	Land Side			
Category	Earthen Levee			
Item	Vegetation			
This photo was taken from the levee crown facing south looking down the landward levee slope at a group of Elderberries. Fall 2013.				
mhoffman_f_20131028_682.JPG				

